0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92
		(updated 01.11.2003)
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Korean Intellectual Property Office (RO/KR)
0-7	Applicant's or agent's file reference	JL-21062-PCT
i	Title of invention	THIONE DERIVATIVES, PROCESSES FOR THE PREPARATION THEREOF, AND PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME
TI .	Applicant	
II-1	This person is:	applicant only
11-2	Applicant for	all designated States except US
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		Republic of Korea
II-6	State of nationality	KR
11-7	State of residence	KR ·
11-8	Telephone No.	82-2-726-8283
11-9	Facsimile No.	82-2-726-8659
II-11	Applicant's registration No. with the Office	1-1998-003466-9

	181-1	Applicant and/or inventor				
III-1-5		• •				
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157-200 Seoul Republic of Korea Republic	III-1-5	Address:				
Republic of Korea RR RR RR RR RR RR RR						
III-17 State of residence KR III-21 Applicant and/or inventor III-22 Applicant for US only III-24 Name (LAST, First) CHAE, Myeong-Yun III-25 Address: 603-402 Ssangyong Apt. State of nationality KR III-27 State of residence KR III-31 This person is: Applicant and/or inventor III-32 Applicant and/or inventor III-33 Applicant for US only III-34 Applicant for US only III-35 Address: 103-902 Daewoo Apt. Youngdeungpo1-dong , Youngdeungpo-gu 150-797 Seoul Republic of Korea KR III-41 Applicant and/or inventor III-42 Applicant for US only III-44 Applicant for US only III-45 Address: 103-902 Daewoo Apt. Youngdeungpo1-dong , Youngdeungpo-gu 150-797 Seoul Republic of Korea KR III-42 Applicant and/or inventor III-43 Applicant for US only III-44 Applicant for US only III-45 Address: 126-801 Yeonwonmaeul Samhobyuksan III-45 Address: 126-801 Yeonwonmaeul Samhobyuksan III-46 State of nationality KR III-47 State of nationality KR III-48 State of nationality KR III-49 Address: 126-801 Yeonwonmaeul Samhobyuksan III-45 Address: 126-801 Yeonwonmaeul Samhobyuksan III-46 State of nationality KR III-47 State of nationality KR III-48 State of nationality KR III-49 State of nationality KR III-40 State of nationality KR III-41 State of nationality KR III-42 Applicant of Samhobyuksan III-45 Address: 126-801 Yeonwonmaeul Samhobyuksan III-46 State of nationality KR III-47 State of nationality KR III-48 State of nationality KR III-49 State of nationality KR III-40 State of nationality KR III-41 State of nationality Samhobyuksan III-45 State of nationality KR III-46 State of nationality Samhobyuksan III-47 Samhobyuksan Applicant Applicant Applicant Appl			_			
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III-2-1			KR			
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III-2-4 Name (LAST, First) CHAE, Myeong-Yun 603-402 Ssangyong Apt. Sunae-dong, Bundang-gu 463-781 Sungnam-city, Kyungki-do Republic of Korea KR III-2-7 State of residence KR III-3-1 This person is: applicant and inventor III-3-2 Address: US only III-3-5 Address: 103-902 Daewoo Apt. III-3-6 State of nationality KR III-3-7 State of residence KR III-3-8 State of nationality KR III-3-9 State of residence KR III-3-1 This person is: Applicant and inventor III-3-1 State of nationality KR III-3-2 Applicant and/or inventor III-4-1 This person is: Applicant and inventor III-4-2 Applicant for US only III-4-4 Name (LAST, First) YEON, Kyu-Jeong III-4-5 Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR III-4-6 State of nationality KR III-4-7 State of nationality KR III-4-8 State of nationality KR III-4-8 State of nationality KR III-4-9 State of nationality KR III-4-1 State of nationality KR III-4-2 State of nationality KR III-4-3 State of nationality KR III-4-4 State of nationality KR III-4-5 State of nationality KR III-4-6 State of nationality KR III-4-7 State of nationality State of nationality KR III-4-8 State of nationality KR III-4-8 State of nationality Stat	111-2-1	This person is:	applicant and inventor			
III-2-5 Address: Address: 603-402 Ssangyong Apt. Sunae-dong, Bundang-gu 463-781 Sungnam-city, Kyungki-do Republic of Korea KR III-2-7 State of residence III-3 Applicant and/or inventor III-3-1 This person is: Applicant for US only III-3-4 Name (LAST, First) KIM, Young-Hoon 103-902 Daewoo Apt. Youngdeungpo1-dong, Youngdeungpo-gu 150-797 Seoul Republic of Korea III-3-7 State of nationality KR III-4-1 This person is: Applicant and inventor III-4-2 Applicant and/or inventor III-4-1 This person is: Applicant and/or inventor III-4-2 Applicant for US only YEON, Kyu-Jeong 116-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR	III-2-2	Applicant for	US only			
Sunae-dong, Bundang-gu 463-781 Sungnam-city, Kyungki-do Republic of Korea KR III-2-7 State of residence KR III-3 Applicant and/or inventor III-3-1 This person is: Applicant for US only Name (LAST, First) Address: III-3-5 State of nationality KR III-3-7 State of residence KR III-3-8 State of nationality KR III-4 Applicant and/or inventor III-4-1 This person is: Applicant of US only KR III-4-2 Applicant of US only KR III-4-3 Applicant and/or inventor III-4-4 Applicant and/or inventor US only VS only	III-2-4	Name (LAST, First)	CHAE, Myeong-Yun			
A63-781 Sungnam-city, Kyungki-do Republic of Korea Republic of	III-2-5	Address:	603-402 Ssangyong Apt.			
III-2-6 State of nationality KR KR III-2-7 State of residence KR III-3-1 This person is: applicant and inventor III-3-2 Applicant for US only III-3-5 Address: 103-902 Daewoo Apt. III-3-6 State of nationality KR III-3-7 State of residence KR III-3-7 State of residence KR III-4 Applicant and/or inventor III-4 Applicant and/or inventor III-4 Applicant for US only III-4 Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR III-4-6 State of nationality KR III-4-7 State of nationality KR III-4-8 State of nationality State of nati			Sunae-dong, Bundang-gu			
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III-3-1	III-2- 7	State of residence	KR			
III-3-2 Applicant for US only KIM, Young-Hoon 103-902 Daewoo Apt. Youngdeungpol-dong, Youngdeungpo-gu 150-797 Seoul Republic of Korea KR KR KR KR KR KR KR KR KR	111-3	Applicant and/or inventor				
III-3-4 Name (LAST, First) KIM, Young-Hoon 103-902 Daewoo Apt. Youngdeungpol-dong, Youngdeungpo-gu 150-797 Seoul Republic of Korea KR III-3-7 State of residence KR KR III-4-1 Applicant and/or inventor This person is: Applicant for US only YEON, Kyu-Jeong Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR III-4-6 State of nationality KR KIM, Young-Hoon 103-902 Daewoo Apt. KIM, Young-Hoon 103-902 Daewoo Apt. Youngdeungpo-gu 150-797 Seoul Republic of Korea KR KR KR KR KR KR KR K	III-3-1	This person is:	applicant and inventor			
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Youngdeungpol-dong, Youngdeungpo-gu 150-797 Seoul Republic of Korea KR III-3-6 State of nationality KR III-4-1 This person is: III-4-2 Applicant for US only III-4-4 Name (LAST, First) YEON, Kyu-Jeong III-4-5 Address: III-4-6 State of nationality KR Youngdeungpol-dong, Youngdeungpo-gu 150-797 Seoul Republic of Korea KR III-3-6 State of nationality KR KR III-4-6 State of nationality KR KR III-4-6 State of nationality KR	111-3-4	Name (LAST, First)	KIM, Young-Hoon			
III-3-6 State of nationality KR III-3-7 State of residence KR III-4-1 This person is: applicant and inventor III-4-2 Applicant for US only III-4-4 Name (LAST, First) YEON, Kyu-Jeong III-4-5 Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea III-4-6 State of nationality KR	111-3-5	Address:	103-902 Daewoo Apt.			
Republic of Korea KR III-3-7 State of residence KR III-4 Applicant and/or inventor III-4-1 This person is: Applicant for US only III-4-2 Name (LAST, First) Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR III-4-6 State of nationality KR III-4-6 State of nationality KR Republic of Korea KR III-4-6 State of nationality KR Republic of Korea KR III-4-6 State of nationality KR Republic of Korea KR III-4-6 State of nationality			Youngdeungpol-dong, Youngdeungpo-gu			
III-3-6 State of nationality III-3-7 State of residence III-4 Applicant and/or inventor III-4-1 This person is: III-4-2 Applicant for III-4-4 Name (LAST, First) III-4-5 Address: III-4-5 State of nationality KR KR KR KR III-4-1 This person is: Applicant and inventor US only YEON, Kyu-Jeong 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR III-4-6 State of nationality KR III-4-6 State of nationality			150-797 Seoul			
III-3-7 State of residence KR III-4 Applicant and/or inventor III-4-1 This person is: Applicant for III-4-2 Applicant for III-4-4 Name (LAST, First) III-4-5 Address: Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea III-4-6 State of nationality KR			Republic of Korea			
III-4 Applicant and/or inventor III-4-1 This person is: Applicant for III-4-2 Applicant for III-4-4 Name (LAST, First) Address: Description of the property of the prope		· ·	KR			
III-4-1 III-4-2 III-4-4 III-4-5 III-4-5 III-4-5 III-4-6 III-4-6 III-4-6 III-4-6 III-4-6 III-4-1 III-4-1 III-4-1 III-4-2 Applicant for US only YEON, Kyu-Jeong 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR			KR			
Applicant for III-4-2 III-4-4 III-4-5 III-4-5 Applicant for US only YEON, Kyu-Jeong 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR		1 "				
Name (LAST, First) YEON, Kyu-Jeong 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR	111-4-1	,	1 			
Address: 126-801 Yeonwonmaeul Samhobyuksan Apt. 524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR	III-4-2	Applicant for	US only			
524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR	111-4-4	Name (LAST, First)	YEON, Kyu-Jeong			
524-8 Mabuk-ri, Guseong-eup 449-912 Yongin-city, Kyungki-do Republic of Korea KR	III-4-5	Address:	126-801 Yeonwonmaeul Samhobyuksan Apt.			
Republic of Korea KR KR						
III-4-6 State of nationality KR			449-912 Yongin-city, Kyungki-do			
			Republic of Korea			
III-4-7 State of residence KR						
	III-4-6	State of nationality	KR			

III-5	Applicant and/or inventor				
III-5-1	This person is:	ammlianat and insert			
III-5-2	Applicant for	applicant and inventor			
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III-5 - 6	State of notionality	Republic of Korea			
	State of nationality State of residence	KR			
111-5-7		KR			
111-6	Applicant and/or inventor	·			
III-6-1	This person is:	applicant and inventor			
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III-6-6	State of nationality	KR			
111-6-7	State of residence	KR			
III-7	Applicant and/or inventor				
III-7-1	This person is:	applicant and inventor			
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III-7-6	State of nationality	KR			
III-7-7 —-	State of residence	KR			
111-8	Applicant and/or inventor				
III-8-1	This person is:	applicant and inventor			
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111-8-7	State of residence	KR			

III-9	Applicant and/or inventor				
III-9-1	This person is:	applicant and inventor			
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111-9-7	State of residence	KR			
III-10	Applicant and/or inventor				
III-10-1	This person is:	applicant and inventor			
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III-10-7	State of residence	KR			
III-11	Applicant and/or inventor				
111-11-1	This person is:	applicant and inventor			
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	State of residence	KR			
III-12	Applicant and/or inventor				
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III-12-4	Name (LAST, First)	PARK, Jie-Eun			
III-12-5	Address:	127-2			
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III-12-6	State of nationality	Republic of Korea			
III-12-7	State of residence	KR			
111-12-1	Otatio di residence	KR			

III-13	Applicant and/or inventor	T			
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	Applicant for	US only			
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III-13-5	Address:	325-13			
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		440-330 Suwon-city, Kyungki-do			
		Republic of Korea			
	State of nationality	KR			
III-13-7	State of residence	KR			
IV-1	Agent or common representative; or				
	address for correspondence The person identified below is	agent			
•	hereby/has been appointed to act on	agent			
	behalf of the applicant(s) before the competent International Authorities as:				
IV-1-1	Name (LAST, First)	LEE, Young-Pil			
IV-1-2	Address:	The Chunghwa Building			
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		137-874 Seoul			
		Republic of Korea			
IV-1-3	Telephone No.	82-2-588-8585			
IV-1-4	Facsimile No.	82-2-588-8586			
IV-1-5	e-mail	iplaw@yplee.co.kr			
V	Designation of States				
V-1	Regional Patent	AP: BW GH GM KE LS MW MZ SD SL SZ TZ UG			
	(other kinds of protection or treatment, if any, are specified between	ZM ZW and any other State which is a			
	parentheses after the designation(s) concerned)	Contracting State of the Harare Protocol			
	whice the dy	and of the PCT			
		EA: AM AZ BY KG KZ MD RU TJ TM and any			
		other State which is a Contracting State			
		of the Eurasian Patent Convention and of			
		the PCT			
		EP: AT BE BG CH&LI CY CZ DE DK EE ES FI			
		FR GB GR HU IE IT LU MC NL PT RO SE SI			
		SK TR and any other State which is a			
		Contracting State of the European Patent			
		Convention and of the PCT			
	i	OA: BF BJ CF CG CI CM GA GN GQ GW ML MR			
		NE SN TD TG and any other State which is			
		a member State of OAPI and a Contracting			
		State of the PCT			

V-2	National Patent	2.53	3.0	7.7	70.04	3 m	3.55							
V-Z	(other kinds of protection or treatment,	1										BR		
	if any, are specified between	l .										DK		
	parentheses after the designation(s) concerned)	EC										HR		
	consenied)	IL	IN	IS	JP	KE	KG	KP	ΚZ	LC	LK	LR	LS	LT
		LU	LV	MA	ΜD	MG	MK	MN	MW	MX	MZ	NI	NO	NZ
		ОМ	PG	PH	PL	PT	RO	RU	SC	SD	SE	SG	SK	SL
												UZ		
		YU		ZM								-	• •	
V-5	Precautionary Designation Statement													
	In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.													
V-6	Exclusion(s) from precautionary	NON	1E											
VI	designations Priority claim	NION	TE											
VII-1	International Searching Authority	ИОИ												
VII-1	Chosen Chosen	(cear [PO)		ite. [SA/			al l	ror	pert	cy (Offi	Lce	
VIII	Declarations		Nu	mber	of dec	laratio	ns							
VIII-1	Declaration as to the identity of the inventor	_												
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-									-			
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-												
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-			-						•			-
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	·					_						
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IX-2 IX-3	Check list Request (including declaration sheets) Description Claims	89 7		numbe	er of s	neets			<u>-</u>					eu

	Accompanying items	paper document(s) attached	electronic file(s) attached
-8	Fee calculation sheet	✓	_
9	Original separate power of attorney	/	_
-17	PCT-EASY diskette	-	Diskette
-19	Figure of the drawings which should accompany the abstract		——
-20	Language of filing of the international application	Korean	
1	Signature of applicant, agent or common representative		
1-1	Name (LAST, First)	LEE, Young-Pil	

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/KR
10-6	Transmittal of search copy delayed until search fee is paid	

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